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CLAIMS 1-2 (ORIGINAL)

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1. A compound of the formula:

$$R^4$$
 $O-Q$
 R^3
 R^4
 $O-Q$
 OR^6
 R^2
 R^2
 R^2
 R^1
 R^1
 R^1
 R^1
 R^1
 R^1

wherein:

R¹ is an alkyl, an alkenyl, an alkynyl, a cycloalkyl, an aryl, or an aralkyl, wherein R¹ is unsubstituted or substituted with one or more substitutents, which are the same or different, selected from the group consisting of R², OR², SR², NR³COR², NR³CSR², NR³CO₂R², NR³CO₂R², NR³CO₂R², NR³CO₂R², NR³CO₂R², NR³CO₂R², NR³SO₂R², CN, NO₂, N₃, and a halogen, wherein R² is an alkyl, an aryl or an aralkyl, wherein R² is unsubstituted or substituted with one or more halogen atoms, which are the same or different, and R³ is H or an alkyl;

 R^2 and R^2 are the same or different and each is H, an alkyl, an alkenyl, an alkynyl, a cycloalkyl, an aryl, or an aralkyl, wherein R^2 is unsubstituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of OR^2 , CN, NO_2 , N_3 , and a halogen;

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R³ and R³' are the same or different and each is H, an alkyl, an alkenyl, an alkynyl, a cycloalkyl, an aryl, or an aralkyl, wherein R³ is unsubstituted or substituted with one or more substituents, which are the same or

different, selected from the group consisting of a trialkylsilyl, an aryldialkylsilyl, an alkyldiarylsilyl, CN, NO₂, N₃, halogens, OR⁷, P(O) (OR⁷) (OR⁸), COR⁹, CSR⁹, CO₂R⁹, COSR⁹, CSOR⁹, CONR⁸R⁹, CSNR⁸R⁹, SO₂R⁹, and SO₂NR⁸R⁹, wherein R⁹ is H, an alkyl, an alkenyl, an alkynyl, a cycloalkyl, an aralkyl, or an aryl, wherein R⁹ is unsubstituted or substituted with one or more substituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of CN, NO₂, N₃, and a halogen; or

 R^2 and R^3 , $R^{2'}$ and R^3 , R^2 and $R^{3'}$, or $R^{2'}$ and $R^{3'}$, together with the carbon atoms to which they are bonded, comprise a cyclic substituent of the formula:

wherein p is an integer from 0-6 and a-d are the same or different and each is selected from the group consisting of H, an alkyl, a nitro, an amino, a hydroxy, a thio, a cyano and a halogen;

R4 is a protecting group or a solid support;

 R^5 is H or an alkyl, which is unsubstituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of OR^7 , CN, NO_2 , N_3 , and a halogen;

R⁶ is a protecting group, an amidoalkyl in which the nitrogen atom is 2, 4, or 5 carbon atoms removed from the oxygen of OR⁶, an alkyl, an alkyl ketone, an alkenyl, an alkynyl, a cycloalkyl, an aryl, or an aralkyl, wherein R⁶

is unsubstituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of CN, NO₂, N₃, and a halogen;

Q is a nucleoside, an oligonucleotide comprising a nucleoside, or an oligomer comprising a nucleoside, wherein said nucleoside is of the formula:

wherein:

B is a labeling group, an alkyl, an alkenyl, an alkynyl, a cycloalkyl, an aryl, a heteroaryl, a heterocycloalkyl, an aralkyl, an amino, an alkylamino, a dialkylamino, a purine, a pyrimidine, adenine, guanine, cytosine, uracil, or thymine, wherein B is unsubstituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of a protecting group, R¹¹, OR¹¹, NHR¹¹, NR¹¹R¹², CN, NO₂, N₃, and a halogen, wherein R¹¹ and R¹² are the same or different and each is H, a protecting group, or an alkyl; and,

E is H, a halogen, OR¹³, NHR¹³, or NR¹³R¹⁴, wherein R¹³ and R¹⁴ are the same or different and each is H, a protecting group, an alkyl, or an acyl; and X is O, S, or Se.

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2. A compound of the formula:

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wherein:

R¹ is an alkyl, an alkenyl, an alkynyl, a cycloalkyl, an aryl, or an aralkyl, wherein R¹ is unsubstituted or substituted with one or more substitutents, which are the same or different, selected from the group consisting of R¹, OR², SR², NR®COR², NR®CSR², NR®CO2R², NR®CO2R², NR®CO2R², NR®CO2R², NR®CO2R², NR®CO2R², NR®CO2R², NR®SO2R², CN, NO2, N3, and a halogen, wherein R¹ is an alkyl, an aryl or an aralkyl, wherein R² is unsubstituted or substituted with one or more halogen atoms, which are the same or different, and R® is H or an alkyl;

 R^2 and R^2 are the same or different and each is H, an alkyl, an alkenyl, an alkynyl, a cycloalkyl, an aryl, or an aralkyl, wherein R^2 is unsubstituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of OR^7 , CN, NO_2 , N_3 , and a halogen;

R³ and R³ are the same or different and each is H, an alkyl, an alkenyl, an alkynyl, a cycloalkyl, an aryl, or an aralkyl, wherein R³ is unsubstituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of a

trialkylsilyl, an aryldialkylsilyl, an alkyldiarylsilyl, CN, NO₂, N₃, a halogen, OR⁷, P(O) (OR⁷) (OR⁸), COR⁹, CSR⁹, CO₂R⁹, COSR⁹, CSOR⁹, CONR⁶R⁹, CSNR⁶R⁹, SO₂R⁹, and SO₂NR⁶R⁹, wherein R⁹ is H, an alkyl, an alkenyl, an alkynyl, a cycloalkyl, an aralkyl, or an aryl, wherein R⁹ is unsubstituted or substituted with one or more substituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of CN, NO₂, N₃, and a halogen; or

 R^2 and R^3 , R^2 and R^3 , R^2 and R^3 , or R^2 and R^3 , together with the carbon atoms to which they are bonded, comprise a cyclic substituent of the formula:

wherein p is an integer from 0-6 and a-d are the same or different and each is selected from the group consisting of H, an alkyl, a nitro, an amino, a hydroxy, a thio, a cyano and a halogen;

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 R^4 is a protecting group or a solid support, R^{15} is H or a protecting group;

Q and Q¹ are the same or different and each is a nucleoside, an oligonucleotide comprising a nucleoside, or an oligomer comprising a nucleoside, wherein said nucleoside is of the formula:

wherein:

B is a labeling group, an alkyl, an alkenyl, an alkynyl, a cycloalkyl, an aryl, a heteroaryl, a heterocycloalkyl, an aralkyl, an amino, an alkylamino, a dialkylamino, a purine, a pyrimidine, adenine, guanine, cytosine, uracil, or thymine, wherein B is unsubstituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of a protecting group, R¹¹, OR¹¹, NHR¹¹, NR¹¹R¹², CN, NO₂, N₃, and a halogen, wherein R¹¹ and R¹² are the same or different and each is H, a protecting group, or an alkyl; and

E is H, a halogen, OR¹³, NHR¹³, or NR¹³R¹⁴, wherein R¹³ and R¹⁴ are the same or different and each is H, a protecting group, an alkyl, or an acyl;

X and X^1 are the same or different and each is O, S, or Se; and,

n is an integer from 1 to about 300, wherein Q is the same or different in each of the units defined by n when n is greater than 1.

3. (Amended) The compound of claim 1, wherein Q is a nucleoside of the formula:

$$\left\{\begin{array}{c|c} & & & \\$$

wherein:

B is a labeling group, an alkyl, an alkenyl, an alkynyl, a cycloalkyl, an aryl, a heteroaryl, a heterocycloalkyl, an aralkyl, an amino, an alkylamino, a dialkylamino, a purine, a pyrimidine, adenine, guanine, cytosine, uracil, or thymine, wherein B is unsubstituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of a protecting group, R_1^{11} , OR_1^{11} , NR_1^{11} , NR_1^{11} , NR_1^{12} , CN, NO_2 , N_3 , and a halogen, wherein R_1^{11} and R_1^{12} are the same or different and each is H, a protecting group, or an alkyl; and

E is H, a halogen, OR¹³, NHR¹³, or NR¹³R¹⁴, wherein R¹³ and R¹⁴ are the same or different and each is H, a protecting group, an alkyl, or an acyl.

CLAIM 4 (ORIGINAL)

4. The compound of claim 1, wherein said compound is of the formula:

$$R^4$$
 O
 B
 E
 O
 E
 R^1
 R^2
 R^3

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$$R^1$$
 R^2
 R^3
 R^4
 R^4

wherein R1-R4, B, and E are as defined in claim 1.

5. (Amended) The compound of claim 1, wherein Q is an oligonucleotide comprising a nucleoside, a nucleoside, or an oligomer comprising a nucleoside, wherein said nucleoside is of the formula:

wherein:

B is a labeling group, an alkyl, an alkenyl, an alkynyl, a cycloalkyl, an aryl, a heteroaryl, a heterocycloalkyl, an aralkyl, an amino, an alkylamino, a dialkylamino, a purine, a pyrimidine, adenine, guanine, cytosine, uracil, or thymine, wherein B is unsubstituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of a protecting group, R¹¹, OR¹¹, NHR¹¹, NR¹¹R¹², CN, NO₂, N₃, and a halogen, wherein R¹¹ and R¹² are the same or different and each is H, a protecting group, or a C₁-C₆ alkyl; and

E is H, a halogen, OR¹³, NHR¹³, or NR¹³R¹⁴, wherein R¹³ and R¹⁴ are the same or different and each is H, a protecting group, an alkyl, or an acyl.

CLAIM 6 (ORIGINAL)

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6. The compound of claim 5, wherein B is a purine, a pyrimidine, adenine, guanine, cytosine, uracil, or thymine, wherein B is unsubstituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of a protecting group, R¹¹, OR¹¹, NHR¹¹, NR¹¹R¹², CN, NO₂, N₃, and a halogen, wherein R¹¹ and R¹² are the same or different and each is H, a protecting group, or an alkyl.

7. (Amended) The compound of claim 1, wherein R^1 is an alkyl, which is unsubstituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of fluorine, OR^7 , and SR^7 , wherein R^7 is an alkyl or an aryl.

CLAIM 8 (ORIGINAL)

8. The compound of claim 7, wherein R³ is a vinyl group or a phenyl group.

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- 9. (Amended) The compound of claim 1, wherein R⁴ is a 4,4'-dimethoxytrityl group.
 - 10. (Amended) A compound of the formula:

$$R^3$$
 R^3
 R^3
 R^2
 R^2
 R^2
 R^3
 R^5
 R^5
 R^1
 R^1
 R^1
 R^1
 R^1

wherein:

W is a leaving group;

R¹ is an alkyl, an alkenyl, an alkynyl, a cycloalkyl, an aryl, or an aralkyl, wherein R¹ is unsubstituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of R⁷, OR⁷, SR⁷, NR⁸COR⁷, NR⁸CSR⁷, NR⁸CO₂R⁷, NR⁸CO₂R⁷, NR⁸CO₂R⁷, O₂CR⁷, S₂CR⁷, SCOR⁷, OCSR⁷, SO₂R⁷, OSO₂R⁷, NR⁸SO₂R⁷, CN, NO₂, N₃, and a halogen, wherein R⁷ is an alkyl, an aryl or an aralkyl, wherein R⁷ is unsubstituted or substituted with one or more halogen atoms, which are the same or different, and R⁸ is H or an alkyl;

 R^2 and R^2 are the same or different and each is H, an alkyl, an alkenyl, an alkynyl, a cycloalkyl, an aryl, or an aralkyl, wherein R^2 is unsubstituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of OR^7 , CN, NO_2 , N_3 , and a halogen;

R³ and R³ are the same or different and each is H, an alkyl, an alkenyl, an alkynyl, a cycloalkyl, an aryl, or an aralkyl, wherein R³ is unsubstituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of a trialkylsilyl, an aryldialkylsilyl, an alkyldiarylsilyl, CN, NO₂, N₃, a halogen, OR⁷,

P(O)(OR⁷)(OR⁸), COR⁹, CSR⁹, CO₂R⁹, COSR⁹, CSOR⁹, CONR⁸R⁹, CSNR⁸R⁹, SO₂R⁹, and SO₂NR⁸R⁹, wherein R⁹ is H, an alkyl, an alkenyl, an alkynyl, a cycloalkyl, an aralkyl, or an aryl, wherein R⁹ is unsubstituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of CN, NO₂, N₃, and a halogen; or

R² and R³, R² and R³, R² and R³, or R² and R³, together with the carbon atoms to which they are bonded, comprise a cyclic substituent of the formula:

wherein p is an integer from 0-6 and a-d are the same or different and each is selected from the group consisting of H, an alkyl, a nitro, an amino, a hydroxy, a thio, a cyano and a halogen;

R⁴ is a protecting group or a solid support;

R⁵ is H or an alkyl, which is unsubstituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of OR⁷, CN, NO₂, N₃, and a halogen;

R⁶ is a protecting group, an amidoalkyl in which the nitrogen atom thereof is 2, 4, or 5 carbon atoms removed from the oxygen of OR⁶, an alkyl, an alkyl ketone, an alkenyl, an alkynyl, a cycloalkyl, an aryl, or an aralkyl, wherein R⁶ is unsubstituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of CN, NO₂, N₃, and a halogen;

Q is an a nucleoside, oligonucleotide comprising a nucleoside, or an oligomer comprising a nucleoside, wherein said nucleoside is of the formula:

wherein:

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B is a labeling group, an alkyl, an alkenyl an alkynyl, a cycloalkyl, an aryl, a heteroaryl, a heterocycloalkyl, an aralkyl, an amino, an alkylamino, a dialkylamino, a purine, a pyrimidine, adenine, guanine, cytosine, uracil, or thymine, wherein B is unsubstituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of a protecting group, R¹¹, OR¹¹, NHR¹¹, NR¹¹R¹², CN, NO₂, N₃, and a

halogen, wherein R¹¹ and R¹² are the same or different and each is H, a protecting group, or an alkyl; and,

E is H, a halogen, OR¹³, NHR¹³, or NR¹³R¹⁴, wherein R¹³ and R¹⁴ are the same or different and each is H, a protecting group, an alkyl, or an acyl; and

X is O, S, or Se.

CLAIMS 11-15 (ORIGINAL)

11. The compound of claim 10, wherein W is halogen, a dialkylamino having from 2 to about 8 carbon atoms, or a cyclic amine having from 2 to about 6 carbon atoms, wherein one or more carbon atoms of the dialkylamino or

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cyclic amine are optionally substituted with one or more heteroatoms, which are the same or different.

- 12. A method of preparing a polymer, said method comprising the steps of:
- (a) reacting a nucleophile that can displace the Nacyl group of an N-acylphosphoramidite with the Nacylphosphoramidite of claim 1, wherein R⁴ is a
 protecting group, to produce an adduct of said Nacylphosphoramidite and said nucleophile, said adduct
 comprising a tricoordinated phosphorus atom;
- (b) reacting said adduct with a reagent selected from the group consisting of oxidizing agents, sulfurizing agents, and selenizing agents, to produce a product, wherein said tricoordinated phosphorus atom is converted into a phosphorus atom with a valence of greater than three;
- (c) removing the protecting group R4 from the product; and
- (d) optionally repeating steps (a) through (c) one or more times until a polymer of specified length is obtained.

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13. The method of claim 12, further comprising the step of cleaving the bond linking the organic moiety to the non-bridging phosphate, phosphorothicate or phosphoroselenoate oxygen atom in the product obtained in step (c) or (d).

- 14. The method of claim 13, wherein the bond linking the organic moiety to the non-bridging phosphate, phosphorothicate or phosphoroselenoate oxygen atom is cleaved chemically.
- 15. The method of claim 13, wherein the bond linking the organic moiety to the non-bridging phosphate, phosphorothicate or phosphoroselenoate oxygen atom is cleaved thermally.

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16. (Amended) The method of claim 12, wherein said nucleophile is attached to a solid support.

17. (Amended) The method of claim 12, wherein said nucleophile is of the formula:

wherein:

Q is a nucleoside, oligonucleotide comprising a nucleoside, or an oligomer comprising a nucleoside, wherein said nucleoside is of the formula:

wherein:

B is a labeling group, an alkyl, an alkenyl, an alkynyl, a cycloalkyl, an aryl, a heteroaryl, a heterocycloalkyl, an aralkyl, an amino, an alkylamino, a dialkylamino, a purine, a pyrimidine, adenine, guanine, cytosine, uracil, or thymine, wherein B is unsubstituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of a protecting group, R¹¹, OR¹¹, NHR¹¹, NR¹¹R¹², CN, NO₂, N₃, and a halogen, wherein R¹¹ and R¹² are the same or different and each is H, a protecting group, or an alkyl; and

E is H, a halogen, OR¹³, NHR¹³, or NR¹³R¹⁴, wherein R¹³ and R¹⁴ are the same or different and each is H, a protecting group, an alkyl, or an acyl; and

R⁴ is a solid support.

CLAIM 18 (ORIGINAL)

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18. The method of claim 14, wherein Q is a nucleoside, an oligonucleotide comprising a nucleoside, or an oligomer comprising a nucleoside, wherein said nucleoside is of the formula:

wherein B and E are as defined in claim 14.

19. (Amended) The method of claim 17, wherein Q is a nucleoside, an oligonucleotide comprising a nucleoside, or an oligomer comprising a nucleoside, wherein said nucleoside is of the formula:

wherein B and E are as defined in claim 17.

20. (Amended) The method of claim 12, wherein said N-acylphosphoramidite is of the formula:

wherein:

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 R^1 is an alkyl, an alkenyl, an alkynyl, a cycloalkyl, an aryl, or an aralkyl, wherein R^1 is unsubstituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of R^7 , OR^7 , SR^7 , NR^8COR^7 , NR^8CSR^7 , $NR^8CO_2R^7$, $NR^8CO_2R^7$, $NR^8CO_2R^7$, O_2CR^7 , O_2CR^7 , O_2CR^7 , $OCSR^7$, $OCSR^7$, $OCSR^7$, OSO_2R^7 , OS

R² is H, an alkyl, an alkenyl, an alkynyl, a cycloalkyl, an aryl, or an aralkyl, wherein R² is unsubstituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of OR⁷, CN, NO₂, N₃, and a halogen;

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R³ is H, an alkyl, an alkenyl, an alkynyl, a cycloalkyl, an aryl, or an aralkyl, wherein R³ is unsubstituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of a trialkylsilyl, an aryldialkylsilyl, an alkyldiarylsilyl, CN, NO₂, N₃, a halogen, OR⁷, P(O)(OR⁷)(OR⁸), COR⁹, CSR⁹, CO₂R⁹, COSR⁹, CSNR⁸R⁹, SO₂R⁹, and SO₂NR⁸R⁹, wherein R⁹ is H, an alkyl, an alkenyl, an alkynyl, a cycloalkyl, an aralkyl, or an aryl, wherein R⁹ is unsubstituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of CN, NO₂, N₃, and a halogen; or

R² and R³, together with the carbon atoms to which they are bonded, comprise a cyclic substituent of the formula:

wherein p is an integer from 0-6 and a-d are the same or different and each is selected from the group consisting of H, an alkyl, a nitro, an amino, a hydroxy, a thio, a cyano and a halogen;

R⁴ is a protecting group or a solid support;

B is a labeling group, an alkyl, an alkenyl, an alkynyl, a cycloalkyl, an aryl, a heteroaryl, a heterocycloalkyl, an aralkyl, an amino, an alkylamino, a dialkylamino, a purine, a pyrimidine, adenine, guanine, cytosine, uracil, or thymine, wherein B is unsubstituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of a protecting group, R¹¹, OR¹¹, NHR¹¹, NR¹¹R¹², CN, NO₂, N₃, and a halogen, wherein R¹¹ and R¹² are the same or different and each is H, a protecting group, or an alkyl; and,

E is H, a halogen, OR¹³, NHR¹³, or NR¹³R¹⁴, wherein R¹³ and R¹⁴ are the same or different and each is H, a protecting group, an alkyl, or an acyl.

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22. (Amended) The method of claim 20, wherein R¹ is an alkyl, which is unsubstituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of fluorine, OR⁷, and SR⁷, wherein R⁷ is an alkyl, an aryl, or an aralkyl.

- 23. (Amended) The method of claim 20, wherein R³ is a vinyl group, a phenyl, or a benzyl.
- 24. (Amended) The method of claim 20, wherein R⁴ is a 4,4'-dimethoxytrityl group.

CLAIM 25 (ORIGINAL)

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- 25. A method of synthesizing an oligomer or polymer, said method comprising:
 - (i) providing a nucleophile;
- (ii) reacting said nucleophile, in the presence of a
 mild acid, with the compound of claim 10 or 11, to
 produce an adduct;
- (iii) reacting the resulting product, in the presence of a base, with a nucleoside, having at least one nucleophilic group and at least one suitably protected nucleophilic group, to produce a product;
- (iv) deprotecting the protected nucleophilic group
 of the resulting product;
- (v) oxidatively transforming the tricoordinated phosphorus atom into a tetracoordinated one; and
- (vi) repeating the steps (ii) (v) until an oligomer or polymer of predetermined length is obtained.

Add the following claims:

26. (New) The compound of claim 2, wherein each of Q and Q^1 is a nucleoside of the formula:

wherein:

Q and Q¹ are the same or different;

B is a labeling group, an alkyl, an alkenyl, an alkynyl, a cycloalkyl, an aryl, a heteroaryl, a heterocycloalkyl, an aralkyl, an amino, an alkylamino, a dialkylamino, a purine, a pyrimidine, adenine, guanine, cytosine, uracil, or thymine, wherein B is unsubstituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of a protecting group, R¹¹, OR¹¹, NHR¹¹, NR¹¹R¹², CN, NO₂, N₃, and a halogen, wherein R¹¹ and R¹² are the same or different and each is H, a protecting group, or an alkyl; and

E is H, a halogen, OR¹³, NHR¹³, or NR¹³R¹⁴, wherein R¹³ and R¹⁴ are the same or different and each is H, a protecting group, an alkyl, or an acyl.

- 27. (New) The compound of claim 2, wherein R¹ is an alkyl, which is unsubstituted or substituted with one or more substituents, which are the same or different, selected from the group consisting of fluorine, OR⁷, and SR⁷, wherein R⁷ is an alkyl or an aryl.
 - 28. (New) The compound of claim 2, wherein R⁴ is a 4,4'-dimethoxytrityl group.

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